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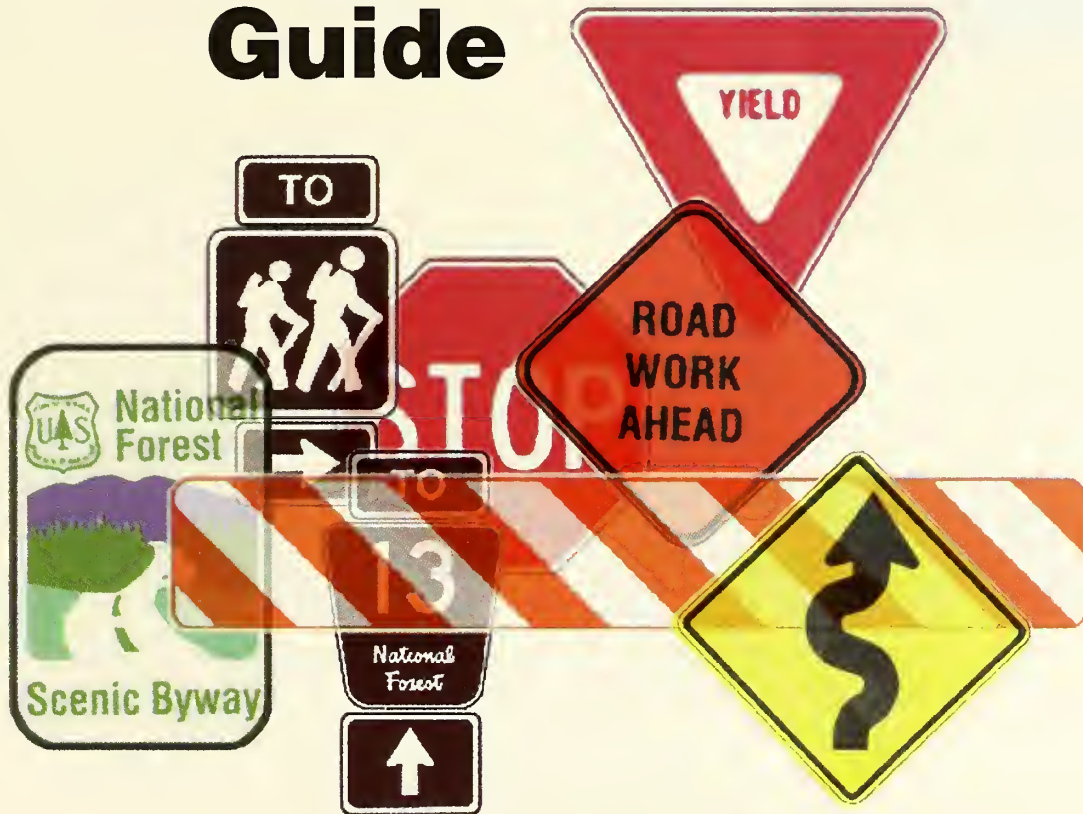
Technology &
Development
Program

7100—Engineering
April 1997
9771-2813-MTDC



Sign Installatio Guide

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1997



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Trent, Andy. 1997. Sign placement guide. Tech. Rep. 9771-2813-MTDC. Missouri U.S. Department of Agriculture, Forest Service, Missoula Technology and Development Center. 19 p.

Includes 19 color photographs showing the specifications for placing signs along Service roads. Intended to help new employees or volunteers install road signs.

Keywords: road signs, specifications, standards.

Some photographs in this manual have been digitally altered to remove distracting features.

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6E62H99—Sign Installation Field Guide

April 1997

Installation Notes

This guide contains information needed to install traffic control signs in accordance with the *Manual of Uniform Traffic Control Devices* (MUTCD) and EM-7100-15 *Standards for Forest Service Signs and Posters*. It provides a quick visual reference to field personnel placing and maintaining the most often used signs and markers. It is not all inclusive of every type sign or marker used, but should give Contractors, Older Americans, Volunteers, and Forest Service personnel a clear picture of how signs should be installed.

The intent of this guide is that it be kept in the glove box of vehicles used by personnel doing sign placement. A quick check of the guide should ensure far less errors in installations. It is not intended to serve as a substitute for training, but as an aid to those trained personnel charged with accomplishment of sign installation and maintenance.

It is assumed that the following items have been accomplished before any signs are installed on the ground:

- A sign plan has been completed and approved that determines appropriate sign messages and correct locations according to Chapter 3, EM-7100-15.
- An engineering study with associated warrants has been performed for all regulatory and warning signs.
- All traffic control signs meet MUTCD and FS standards.

Advance placement distances should have been determined according to Figure 11-30, EM-7100-15. However, on-the-ground situations do not always fit the given distances for sign placement. Some shifting may be needed when rocks, trees, holes, or other obstructions are encountered and preclude the use of given distances. Judgment needs to be used to insure that signs are placed to be visible in time for drivers to react to the sign message.

Refer to *Manual on Uniform Traffic Control Devices* and EM-7100-15 - *Standards for Forest Service Signs and Posters* for complete information.

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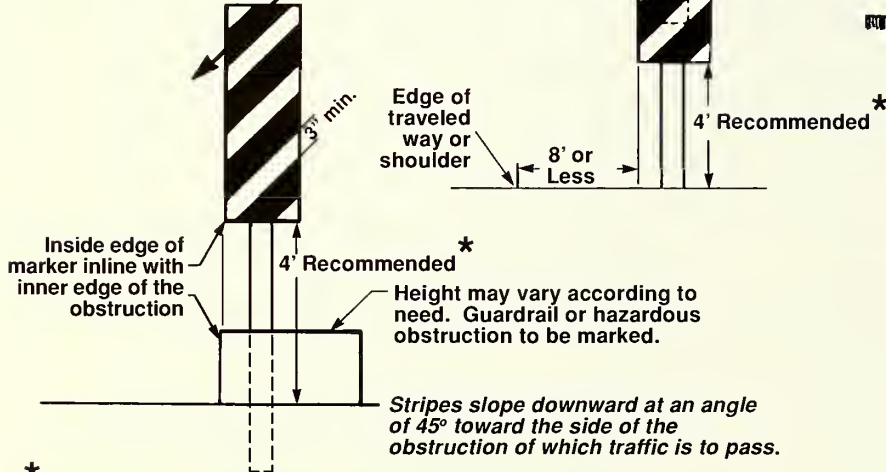
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3 CATALOGING PREP.

Typical Installations

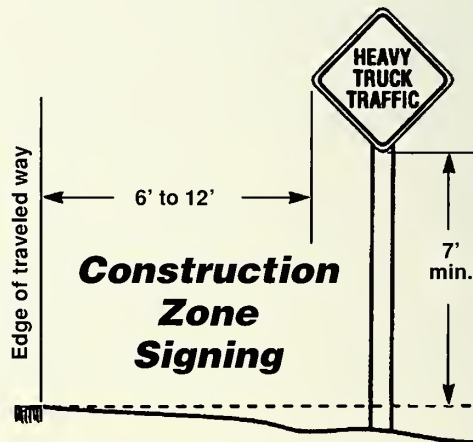
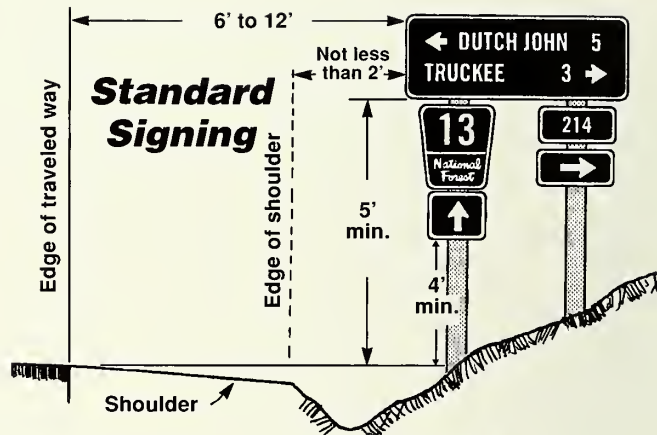
Note: Mount top of sign flush with top of post. A one inch gap is allowable between multiple (stacked) signs to allow for expansion/contraction.

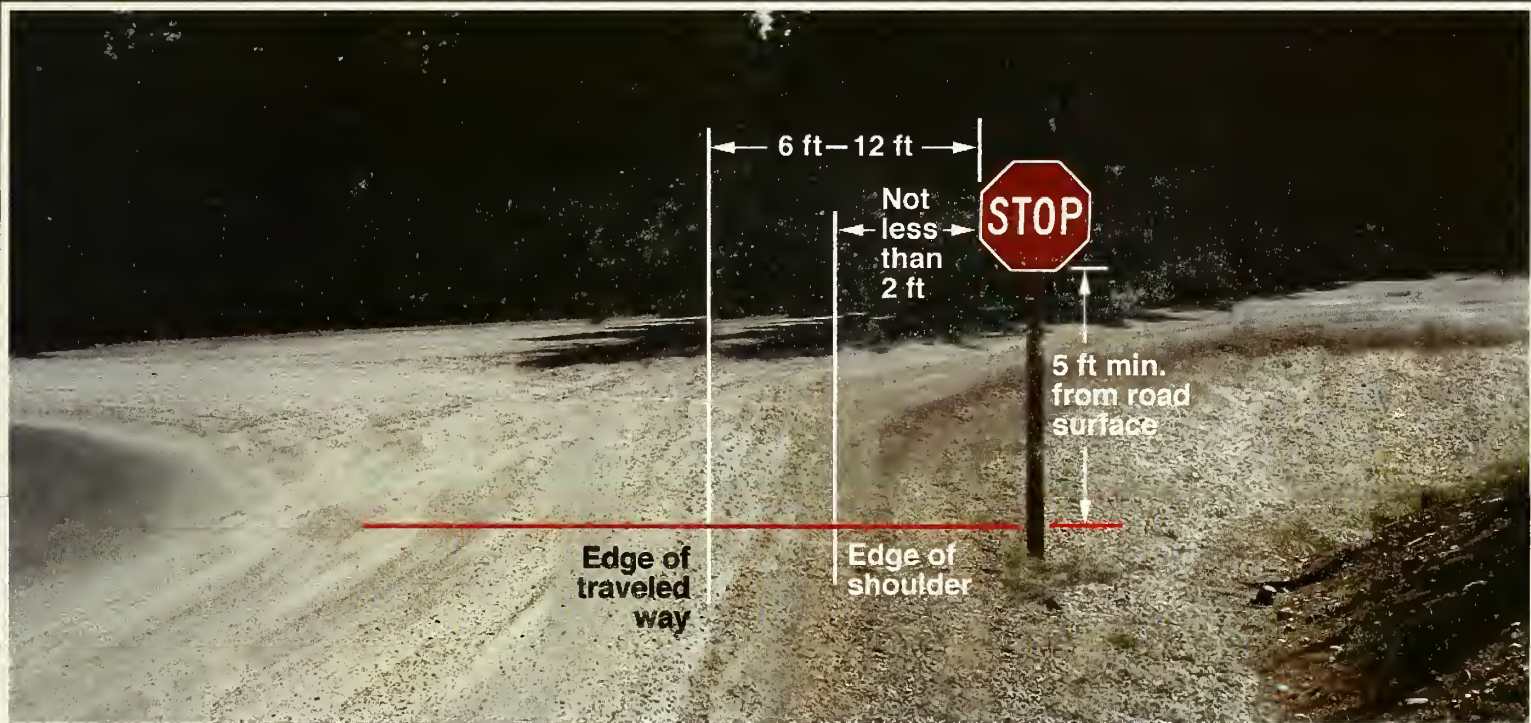
Safe Passing Side



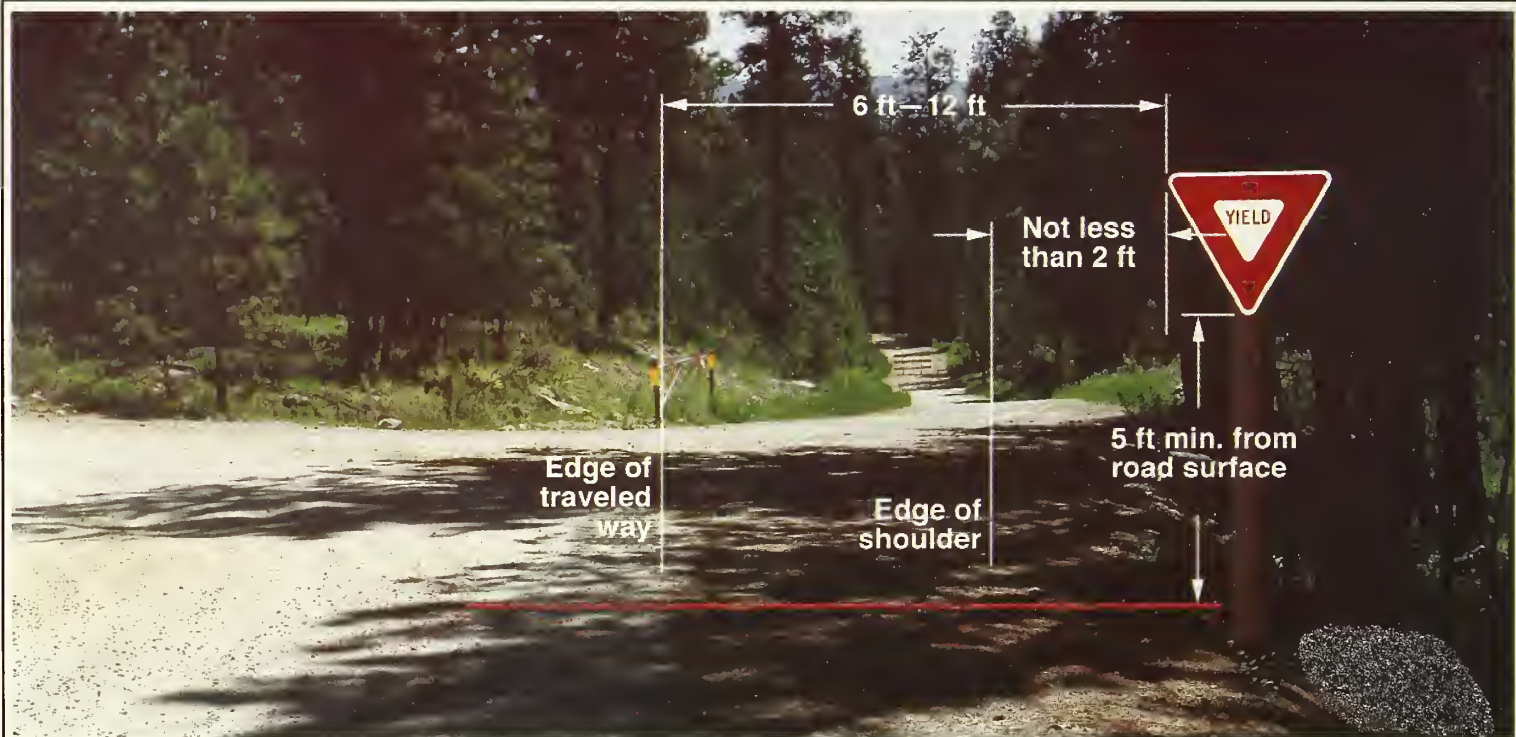
* Vertical mounting height may vary according to need when an object requires a lower or higher mounting. Not less than 6 inches.

Bridge with railing but no curb; mark the inner edge of the railing.

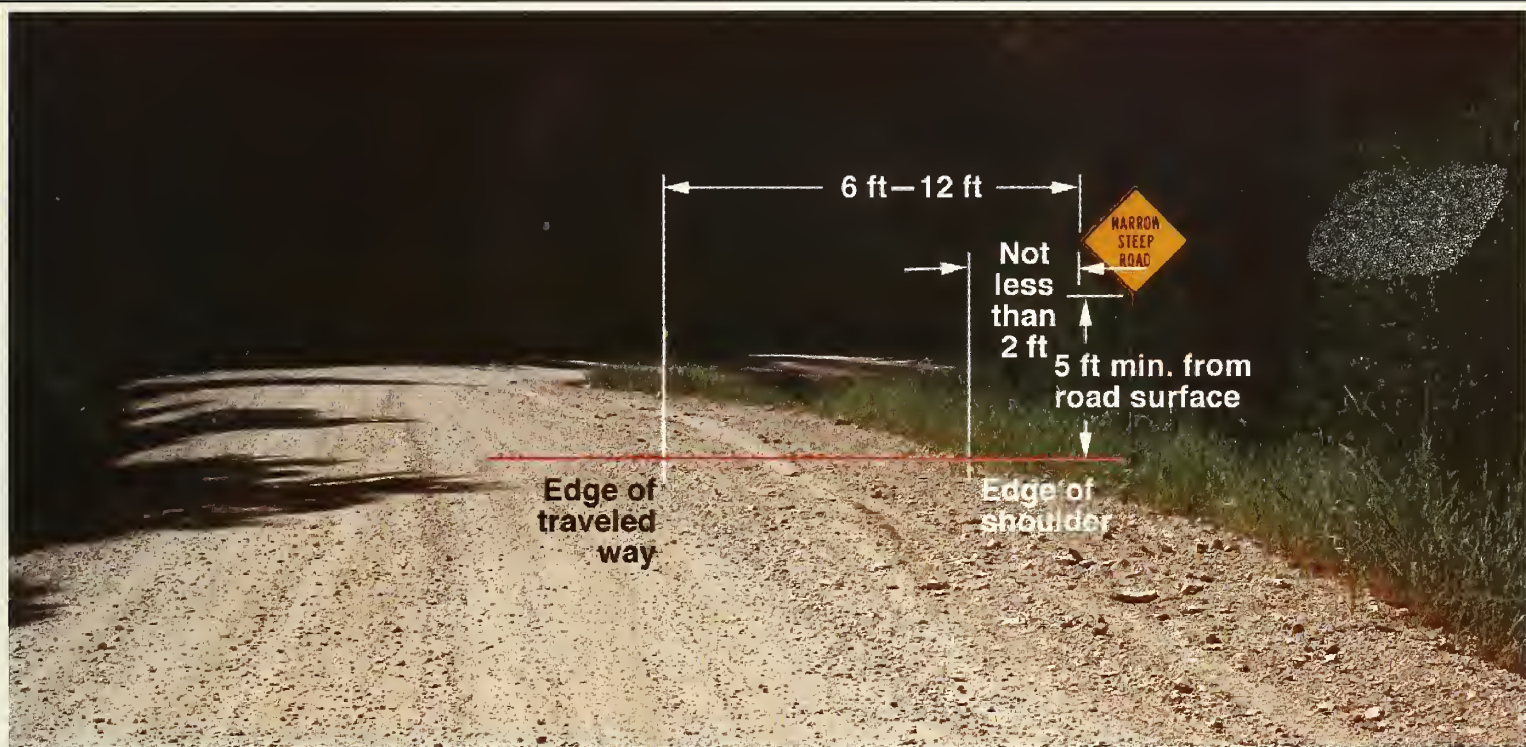




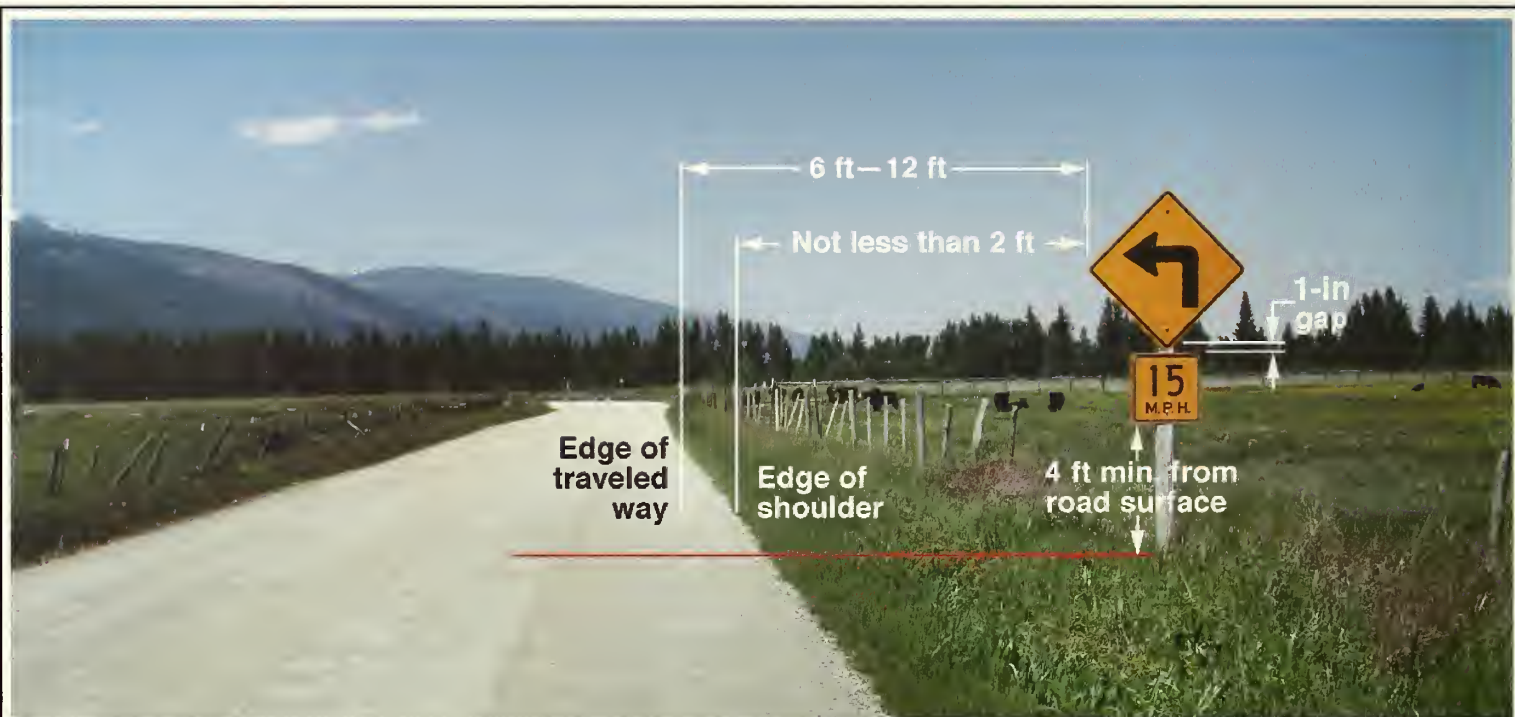
Stop Sign
(or other regulatory signs)



Yield Sign
(or other regulatory signs)



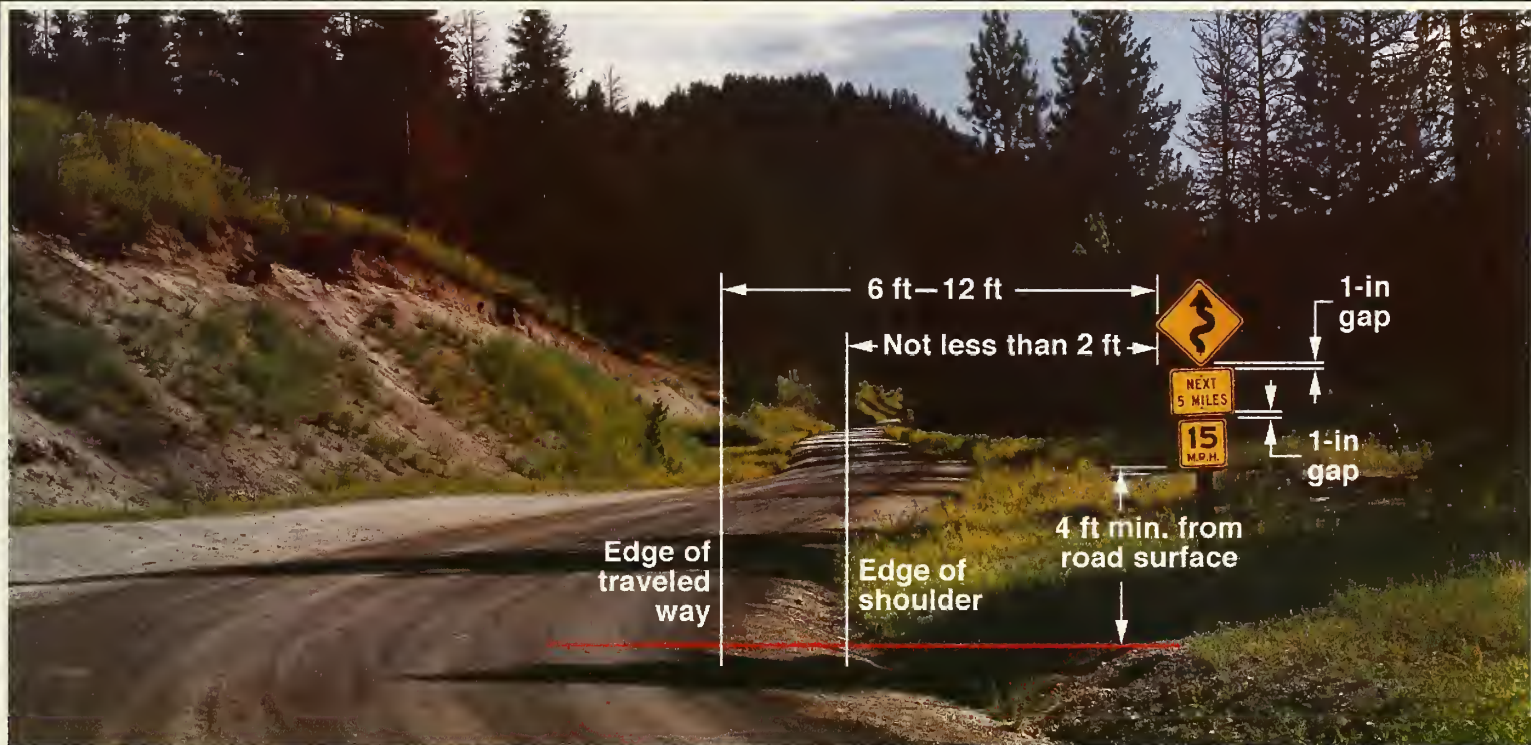
Warning Sign
(no supplemental plaques)



Warning Sign With Advisory Speed Plate

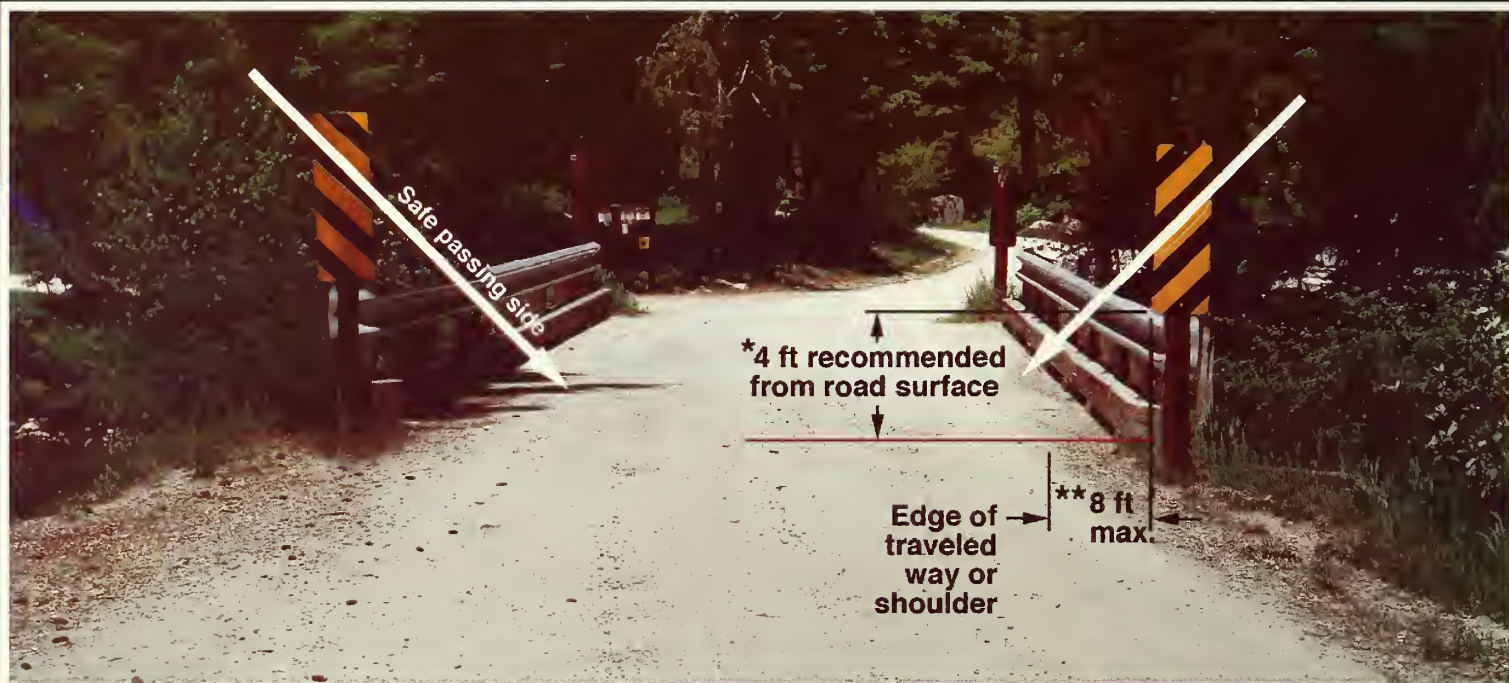
Note: Advisory speed plates supplement the warning sign and shall not be used alone.

Not to be used for construction or maintenance signs.



Warning Sign With Advisory Speed Plate and Supplemental Plaque

Note: Advisory speed plates and supplemental plaques are not to be used alone.



Type 3 Object Marker

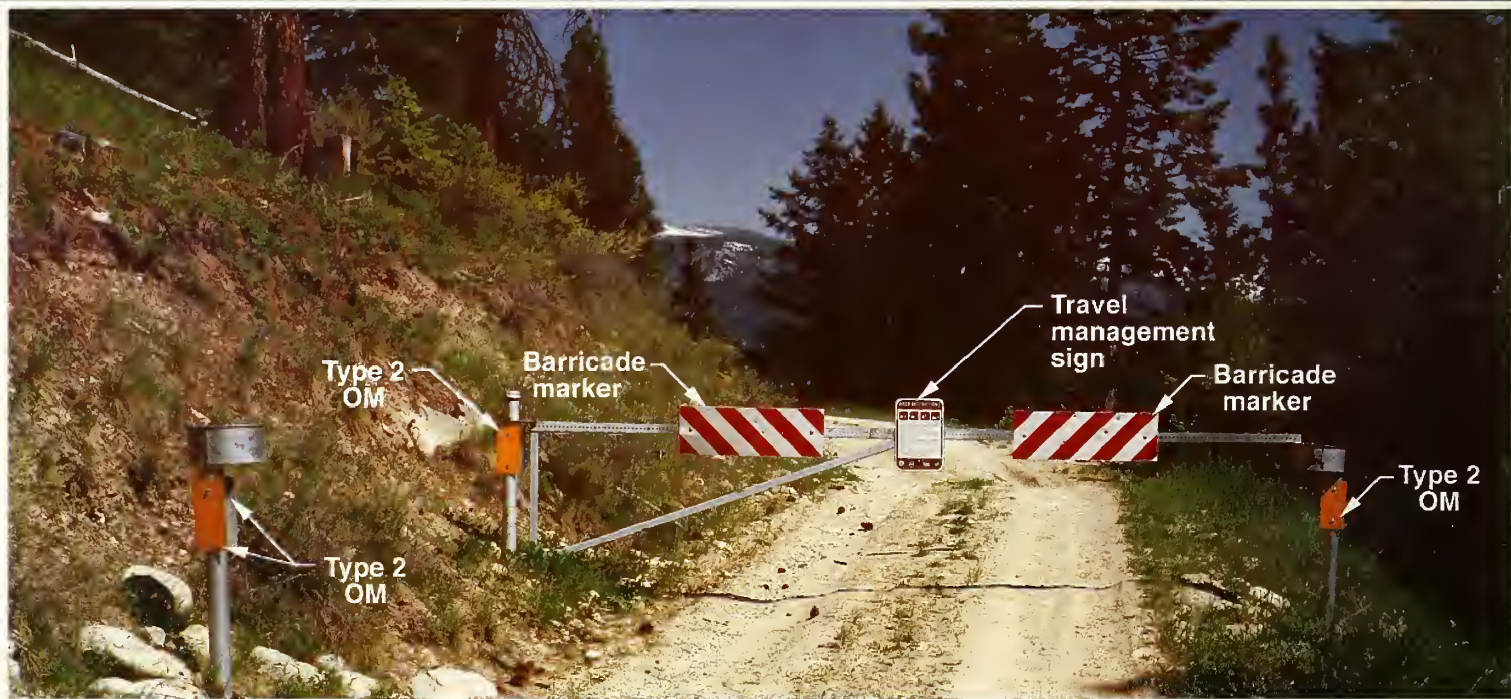
Note: Inside edge of object marker lines up with inside edge of curb or guardrail (MUTCD 3C-1).

*Vertical mounting height may vary according to need when an object requires a lower or higher mounting. **Not** less than 6 inches.

**Do not use type 3 Object Marker further than 8 feet from edge of traveled way or shoulder.



Typical Cattleguard Signing With Modified Type 2 Object Markers
(roadway is not constricted)



Typical Gate Signing With Object Markers for One Lane Roads

Note: If motorized/nonmotorized (such as bicycles) use occurs behind gate, back side will require signing also. Size of barricade markers depends on approach speeds (EM 7100-15: Chapter 11). Travel management signing: if road use is restricted with an order, a travel management sign should be mounted on the gate or on a post next to the gate.



Work Zone Identification Sign

Note: Includes construction, maintenance, and logging operations (MUTCD VI).



Construction/Maintenance Sign (Temporary Support)

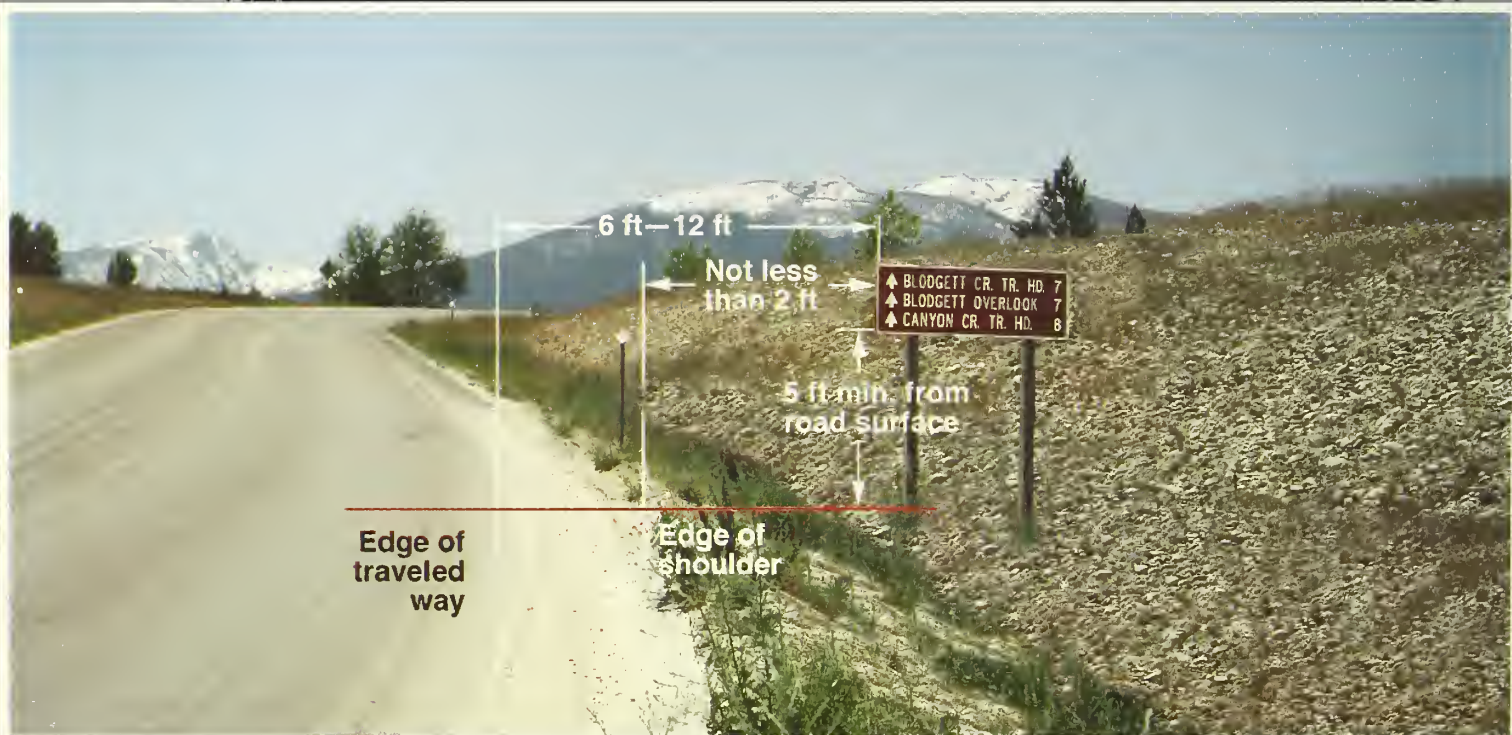
Do not mount on trees or other signs.

Note: For short term, short-duration, and mobile conditions only. Signs to be constantly maintained for cleanliness, visibility, and correct positioning as they are moved frequently (MUTCD, VI).

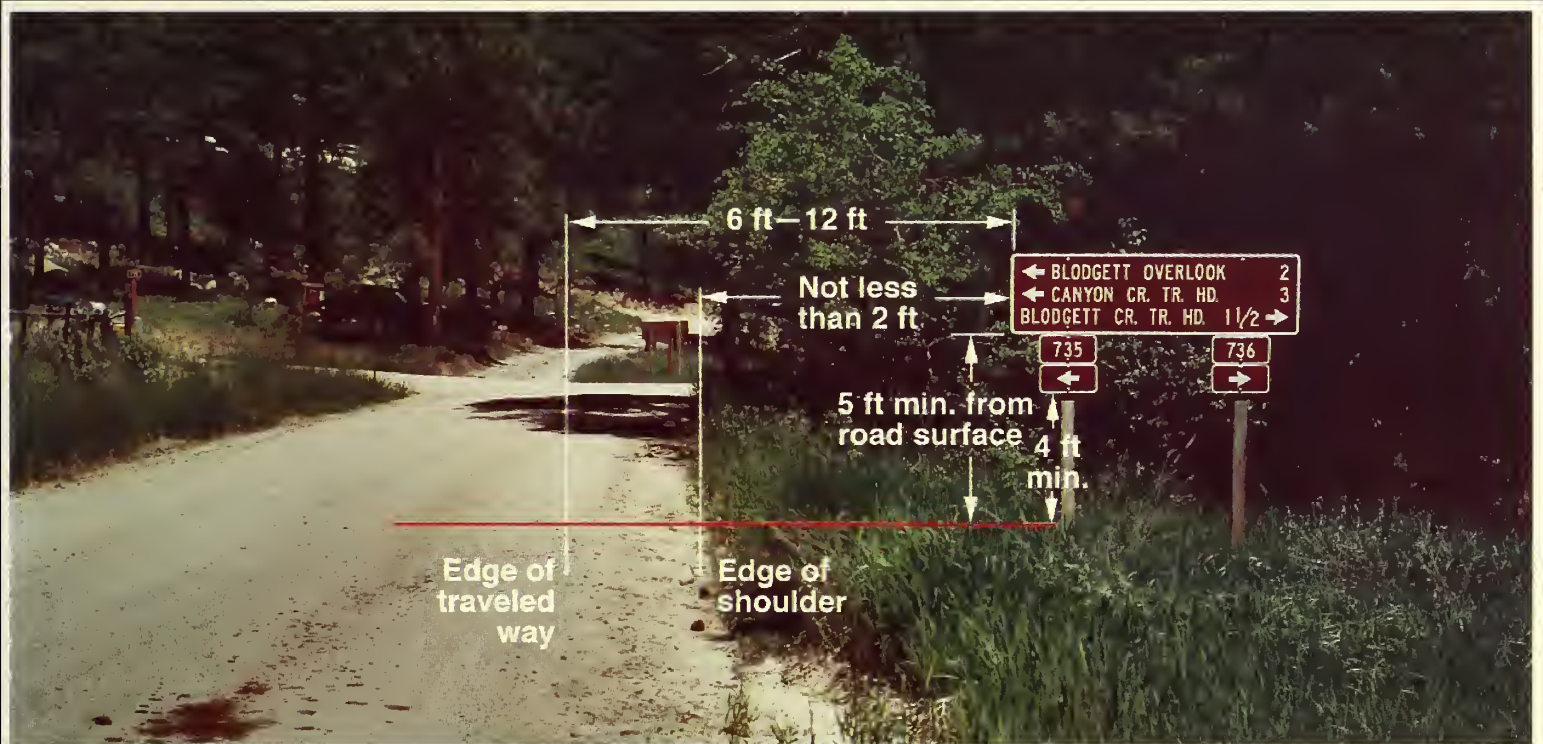


Road Closed Sign

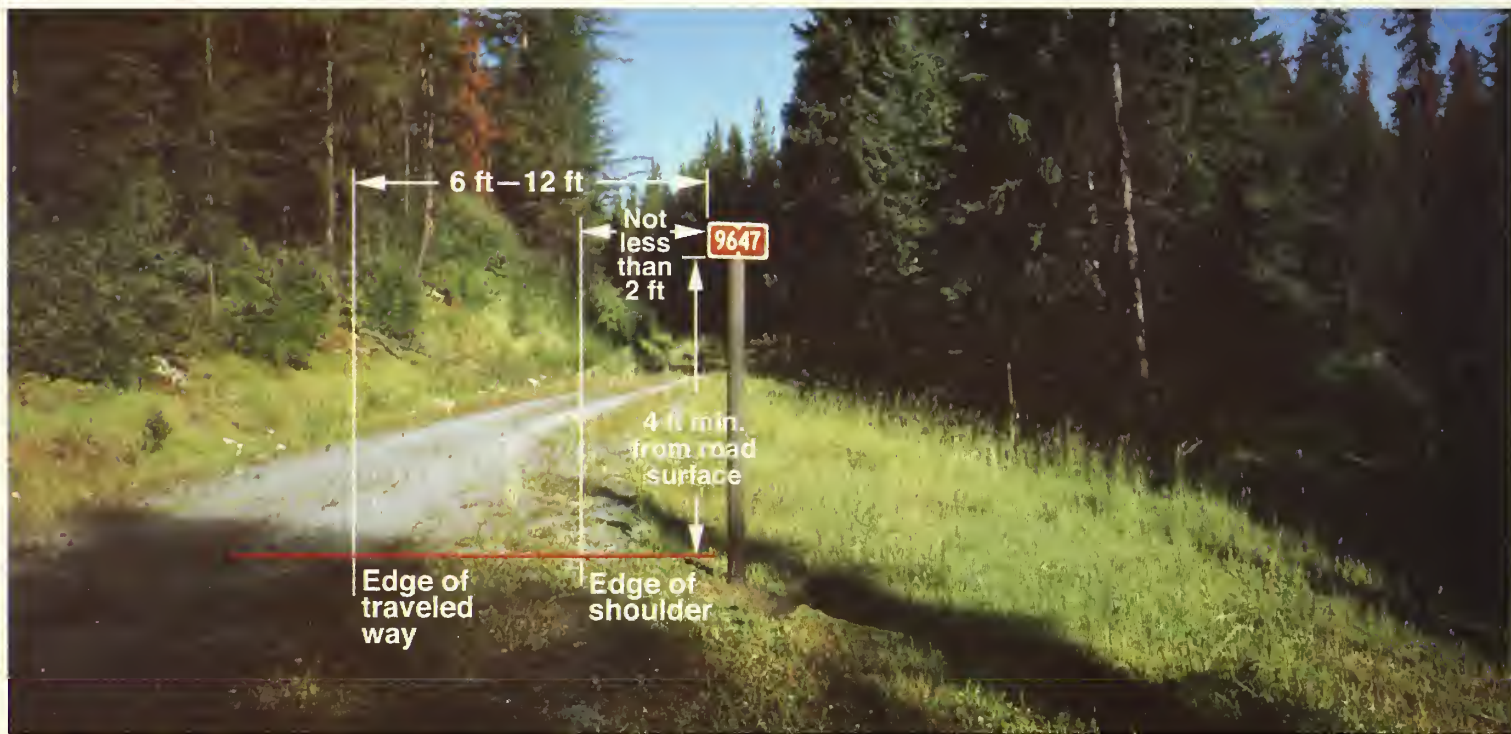
Note: This sign is used to mark roads that have been closed to all motorized and nonmotorized traffic (except authorized vehicles) because of a temporary emergency, construction and maintenance activities, or spring breakup. It is not to be used on a gate or closure for seasonal/or long-term road restrictions. *See MUTCD, VI and EM 7100-15 for barricade requirements.*



Destination Sign

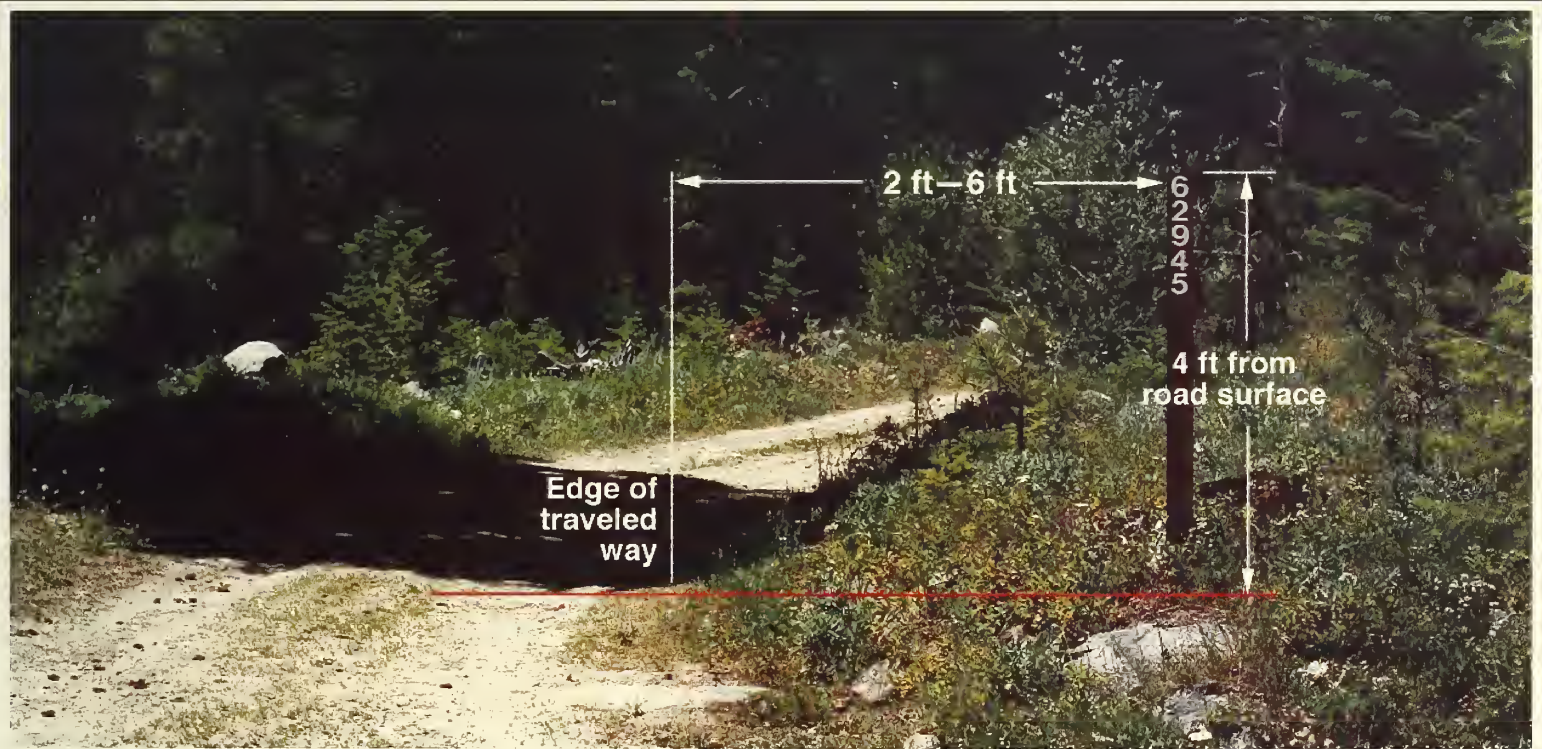


Destination Sign With Route Markers

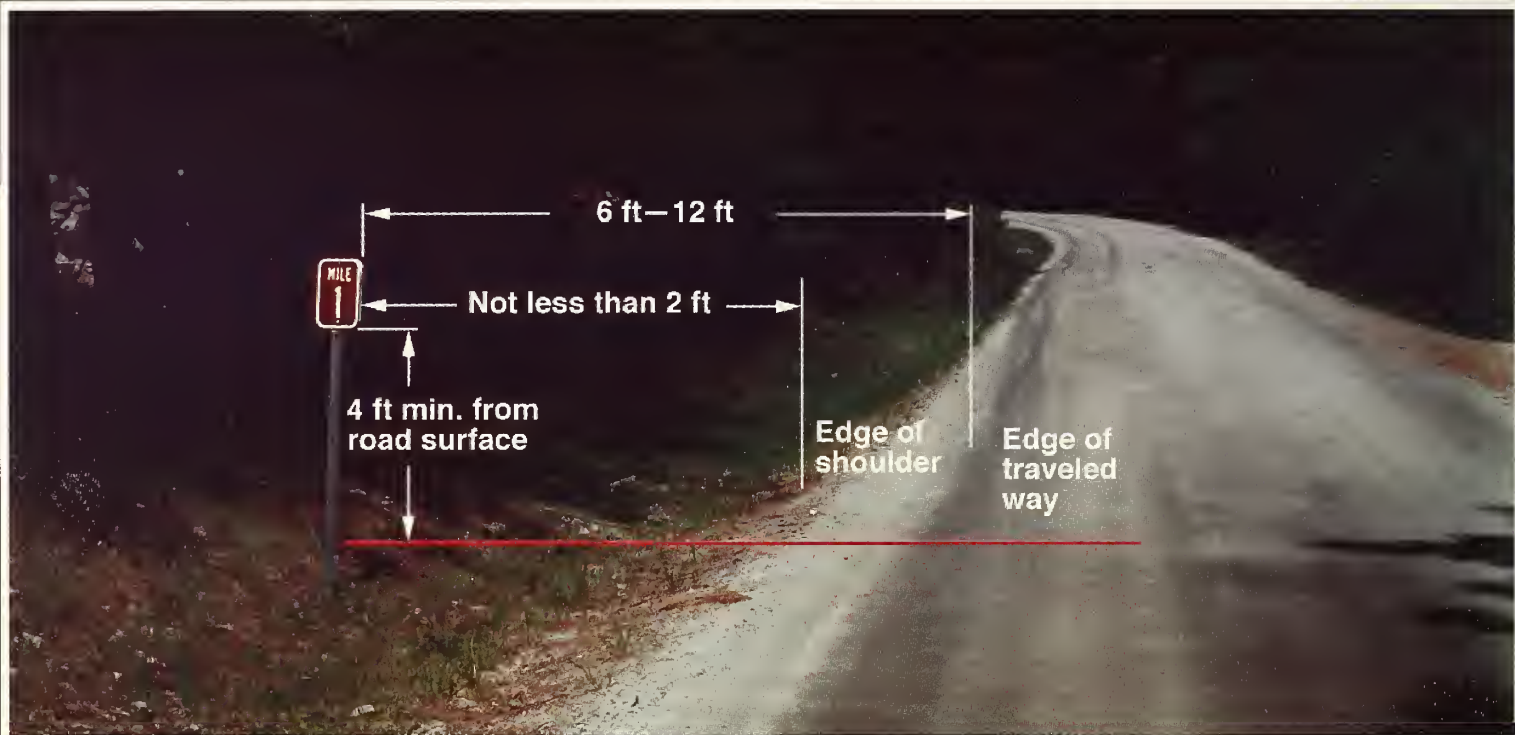


Horizontal or Distinctive Route Marker

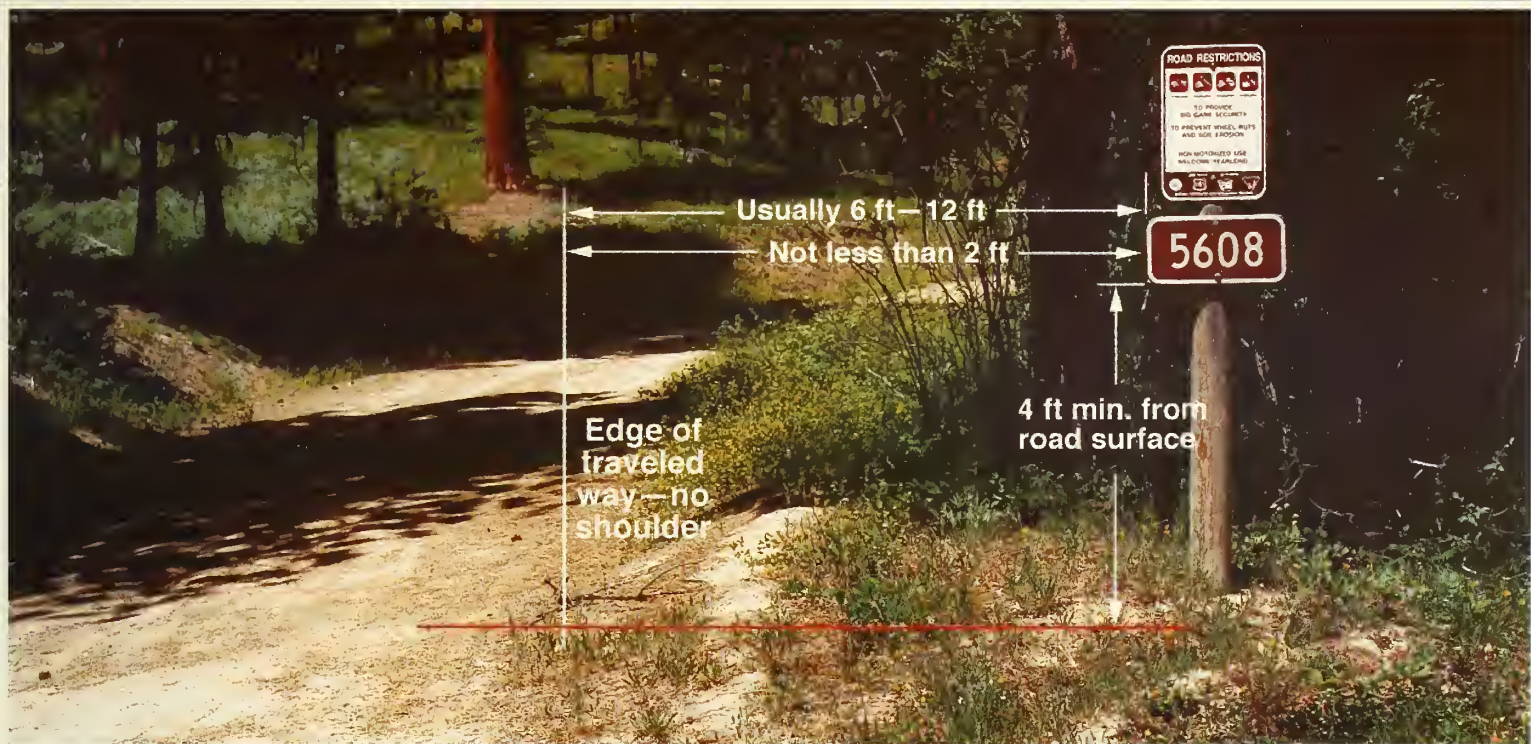
Note: On steep slope installations, minimum 2 ft distance is preferred to minimize pole height.



Vertical Route Marker
(for maintenance levels 1 and 2 roads)

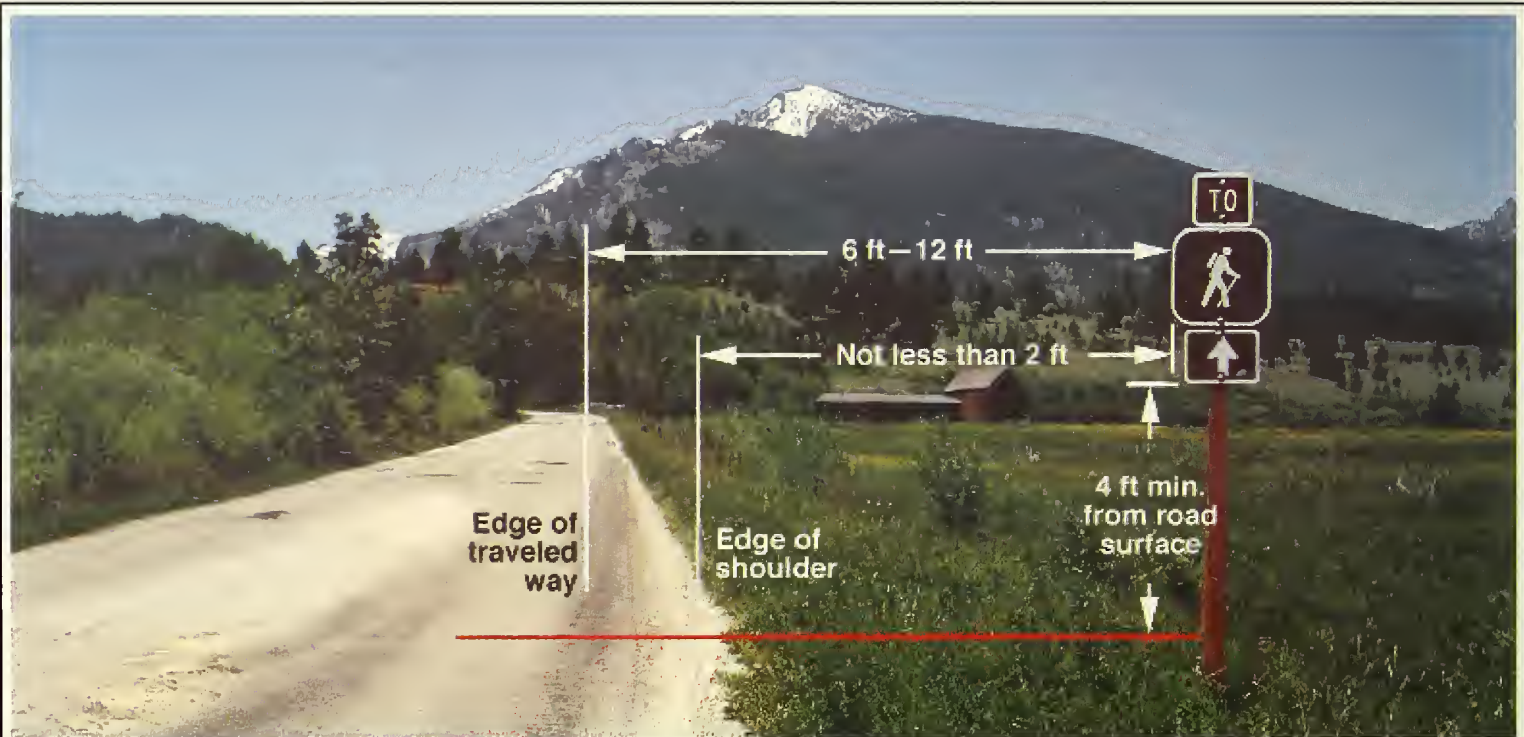


Mile Post Marker



Travel Management Sign With Route Marker

Note: If restrictions are noted on travel management sign, there must be an order written under 36 CFR 261.



Trailblazer Assembly

Note: Background colors on each assembly should be the same (refer to EM 7100-15, Figure 11-17).

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